INTERNATIONAL SEARCH REPORT

International application No.

| | | PC1/UP. | 2005/001397 | | | |
|---|--|---|-------------------------------|--|--|--|
| A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F04B39/04, 39/00, 39/14, F16B4/00 | | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | |
| B. FIELDS SE | | | | | | |
| Minimum docum | Minimum documentation searched (classification system followed by classification symbols) | | | | | |
| Int.Cl | 7 F04B39/00-39/16, F16B4/00 | | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | | | |
| Jitsuyo | Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 | | | | | |
| Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005 | | | | | | |
| Electronic data b | Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) | | | | | |
| | | | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | | |
| Category* | Citation of document, with indication, where ap | · · | Relevant to claim No. | | | |
| Y | JP 60-90995 A (Toshiba Corp. 22 May, 1985 (22.05.85), |), | 1-5 | | | |
| | Full text | | | | | |
| | (Family: none) | | | | | |
| | - | | | | | |
| Y | Microfilm of the specification | on and drawings | 1-5 | | | |
| | annexed to the request of Jap | anese Utility | | | | |
| | Model Application No. 43012/1 | .986 (Laid-open | | | | |
| | No. 156170/1987) (Toshiba Corp.), | | | | | |
| | 03 October, 1987 (03.10.87), | | | | | |
| | Full text | | | | | |
| | (Family: none) | | | | | |
| | - | | | | | |
| | | | | | | |
| | | • | | | | |
| | | | | | | |
| | | | | | | |
| | | | <u> </u> | | | |
| Further documents are listed in the continuation of Box C. Special extensions of sized documents. | | | | | | |
| Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the date and not in conflict with the appropriate to be of particular relevance. | | | ation but cited to understand | | | |
| "E" earlier application or patent but published on or after the international "X" document of particular relevance: the | | | | | | |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other "Y" document of | | considered novel or cannot be considered when the document is taken alone | lered to involve an inventive | | | |
| | | | claimed invention cannot be | | | |
| "O" document referring to an oral disclosure, use, exhibition or other means combined with one or more other sa | | | documents, such combination | | | |
| "P" document published prior to the international filing date but later than the being obvious to a person skilled in the | | | e art | | | |
| priority date claimed "&" document member of the same patent family | | | | | | |
| Date of the actual completion of the international search Date of mailing of the international search report | | | | | | |
| 26 Apri | 11, 2005 (26.04.05) | 17 May, 2005 (17.0! | 5 05) | | | |
| | - | | , | | | |
| | g address of the ISA/ | Authorized officer | | | | |
| Japanese Patent Office | | | | | | |
| Facsimile No. Telephone No. | | | | | | |
| Form PCT/ISA/210 (second sheet) (January 2004) | | | | | | |

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP2005/001397

| | | PC1/UF2 | 005/001397 |
|------------------|--|---------|-----------------------|
| C (Continuation) | DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | | Relevant to claim No. |
| Y | Microfilm of the specification and drawing annexed to the request of Japanese Utility Model Application No. 158397/1981(Laid-op No. 63407/1983) (Tokyo Buhin Kogyo Co., Ltd.), 28 April, 1983 (28.04.83), Full text; Figs. 6, 7 (Family: none) | -y | 1-5 |
| Y | Microfilm of the specification and drawing annexed to the request of Japanese Utility Model Application No. 130180/1974 (Laid-op No. 70091/1976) (Koito Manufacturing Co., Ltd.), 02 June, 1976 (02.06.76), Full text; Figs. 4, 5 (Family: none) | -y | 1-5 |
| A | <pre>JP 45-26515 Y1 (Tokyo Shibaura Electric Co., Ltd.), 15 October, 1970 (15.10.70), Full text (Family: none)</pre> | | 1-5 |